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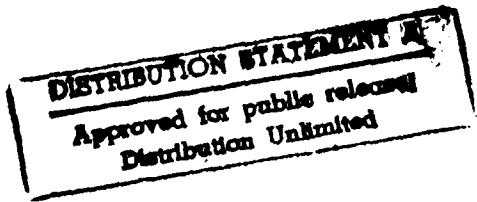
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# Atlas of Formability:

Cast Aluminum 6061  
Flow Stress Curves,



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## REPORT DOCUMENTATION PAGE

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<p>In this investigation, flow behavior of Aluminum 6061 alloy was studied by conducting compression tests over a wide range of temperatures and strain rates. Stress-strain curves were recorded for each test condition. These data are essential in metalworking process design or finite element analysis of high temperature deformation.</p>			
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**ATLAS OF FORMABILITY  
CAST ALUMINUM 6061**

**by**

**Howard A. Kuhn**

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1450 Scalp Avenue  
Johnstown, PA 15904**

**for**

**Naval Industrial Resource Support Activity  
Building 75-2, Naval Base  
Philadelphia, PA 19112-5078**

**January 31, 1991**

**The views, opinions, and/or findings contained in this report are those of the authors and  
should not be construed as an official Department of the Navy position, policy, or  
decision, unless so designated by other documentation**

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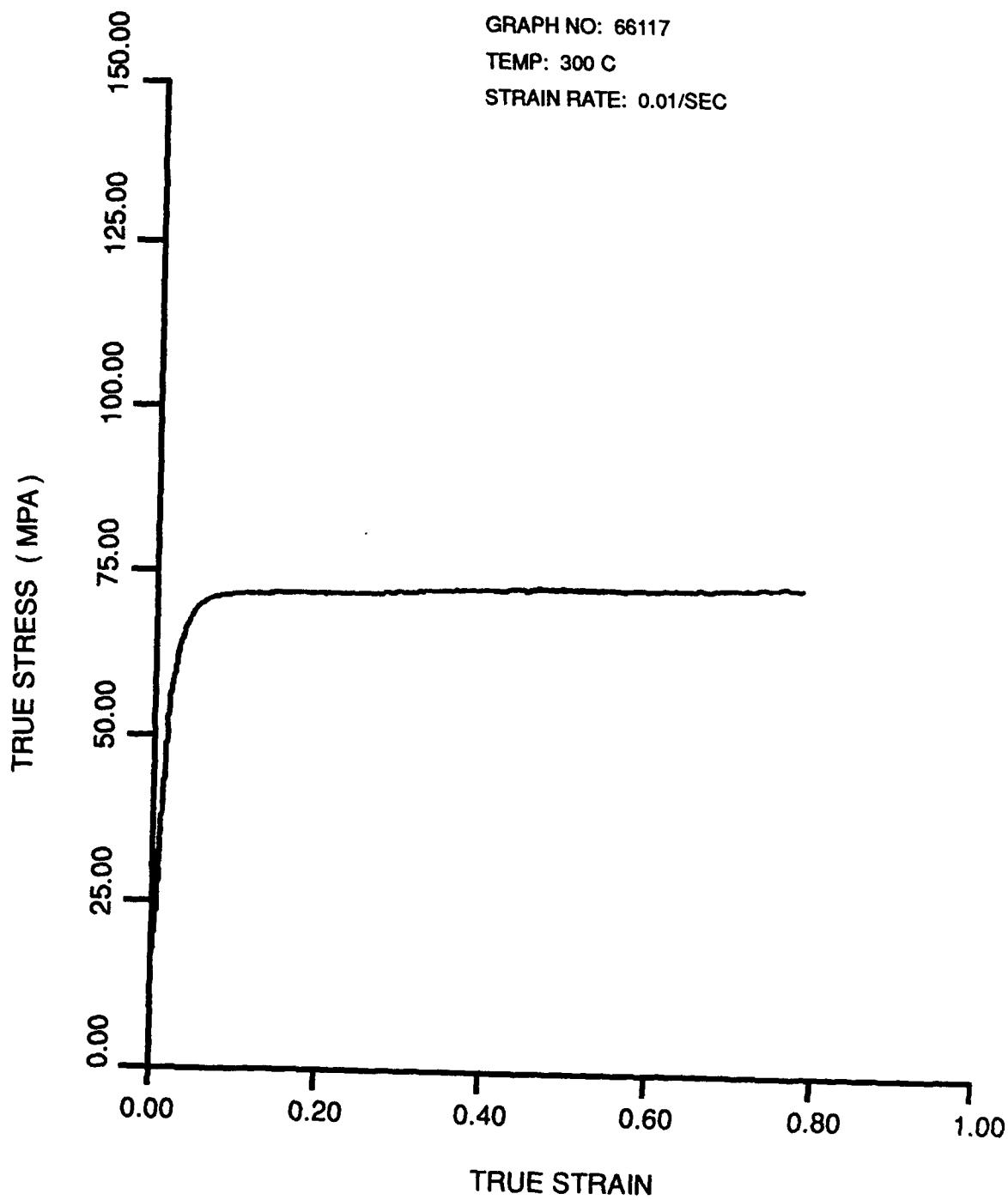
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## Cast Aluminum 6061

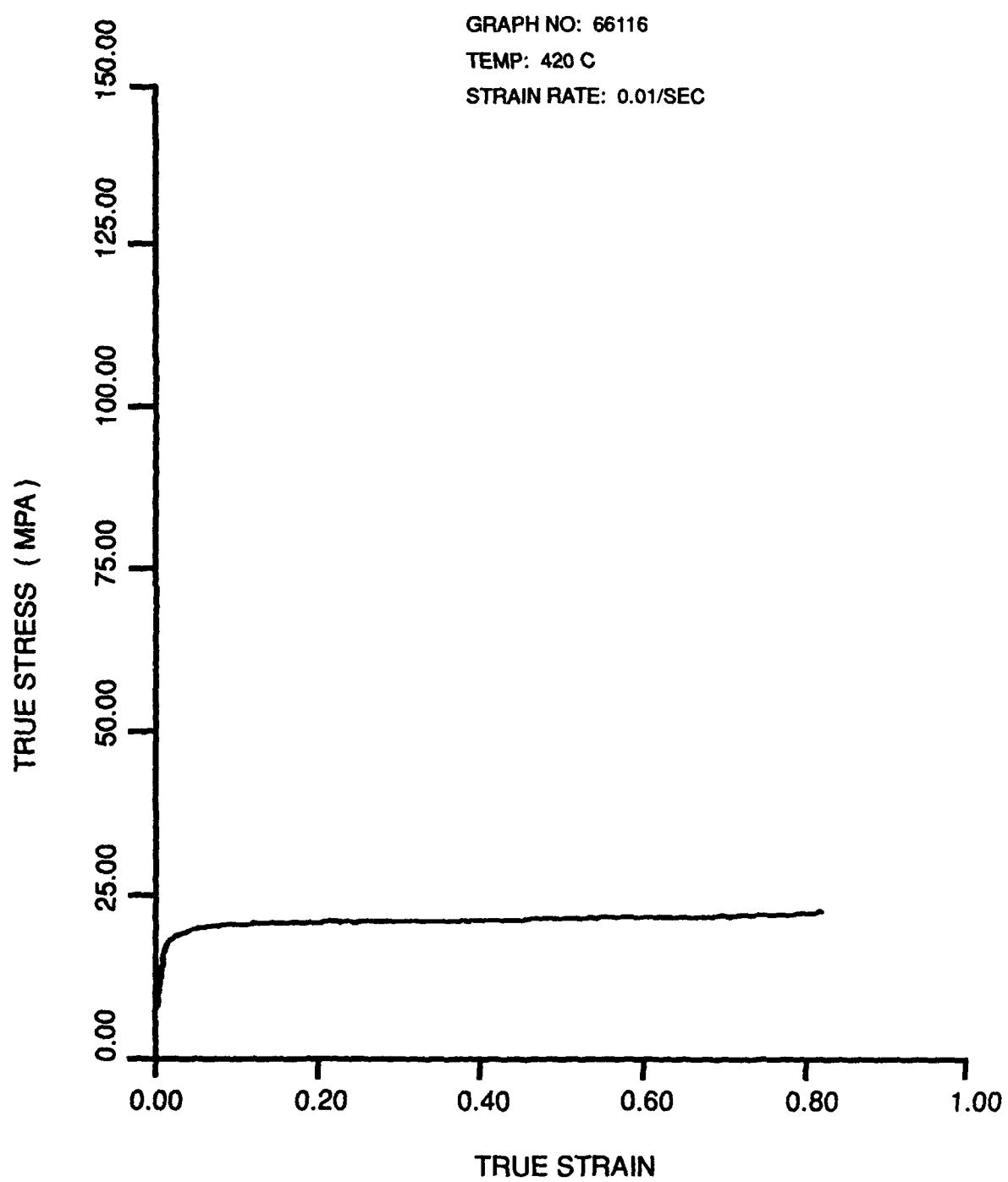
### Testing Parameters

Strain Rate (1/sec.)	Temperature (deg. C)	Graph Number	Page Number
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0.01	420	66116	3
0.01	540	66119	4
0.01	Combination	66123	5
0.1	360	66114	6
0.1	480	66115	7
0.1	Combination	66124	8
1.0	300	66122	9
1.0	420	66109	10
1.0	540	66112	11
1.0	Combination	66125	12
5.0	360	66101	13
5.0	480	66102	14
5.0	Combination	66126	15
12.0	300	66104	16
12.0	420	66103	17
12.0	540	66106	18
12.0	Combination	66127	19

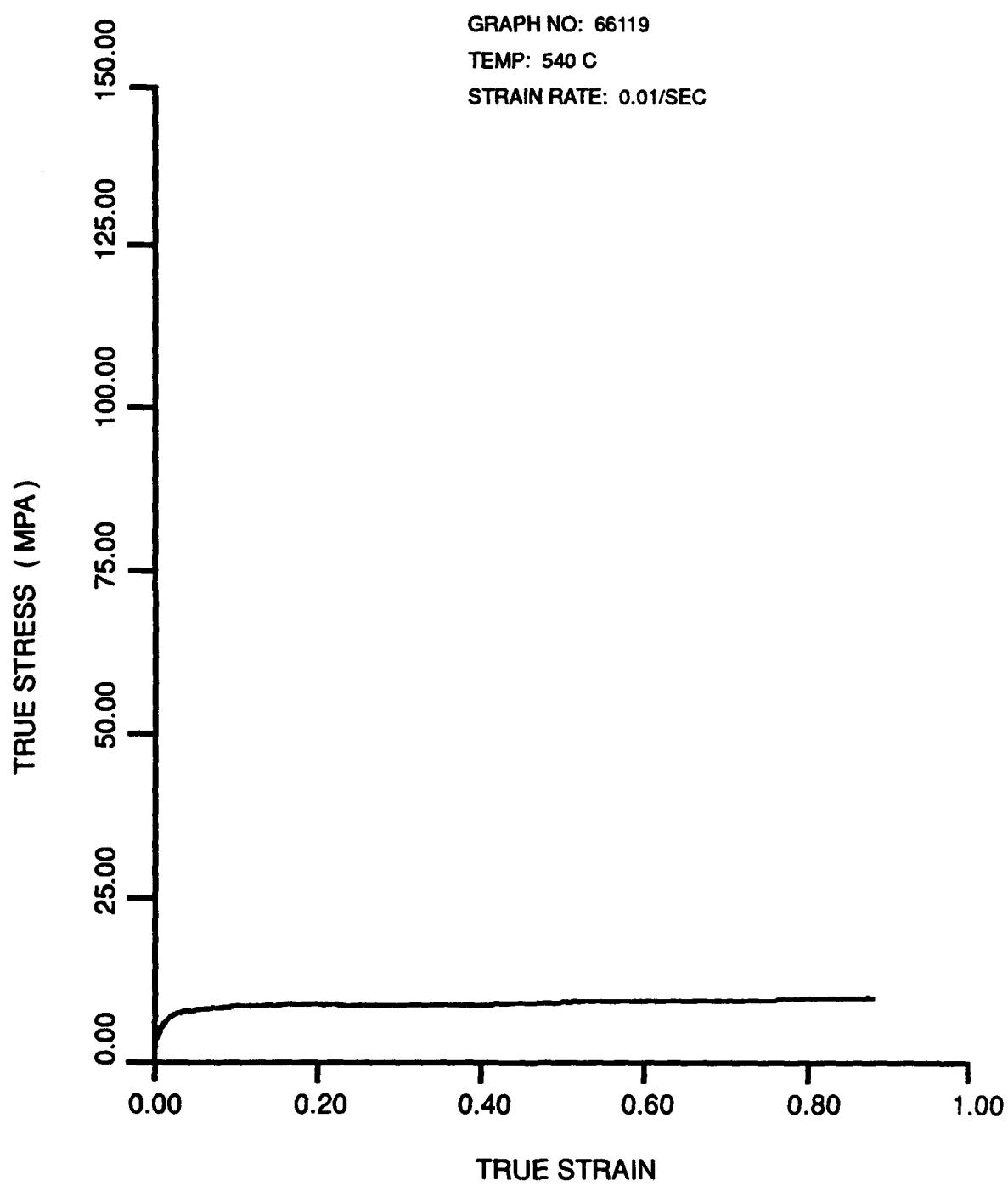
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TEMP: 300 C  
STRAIN RATE: 0.01/SEC



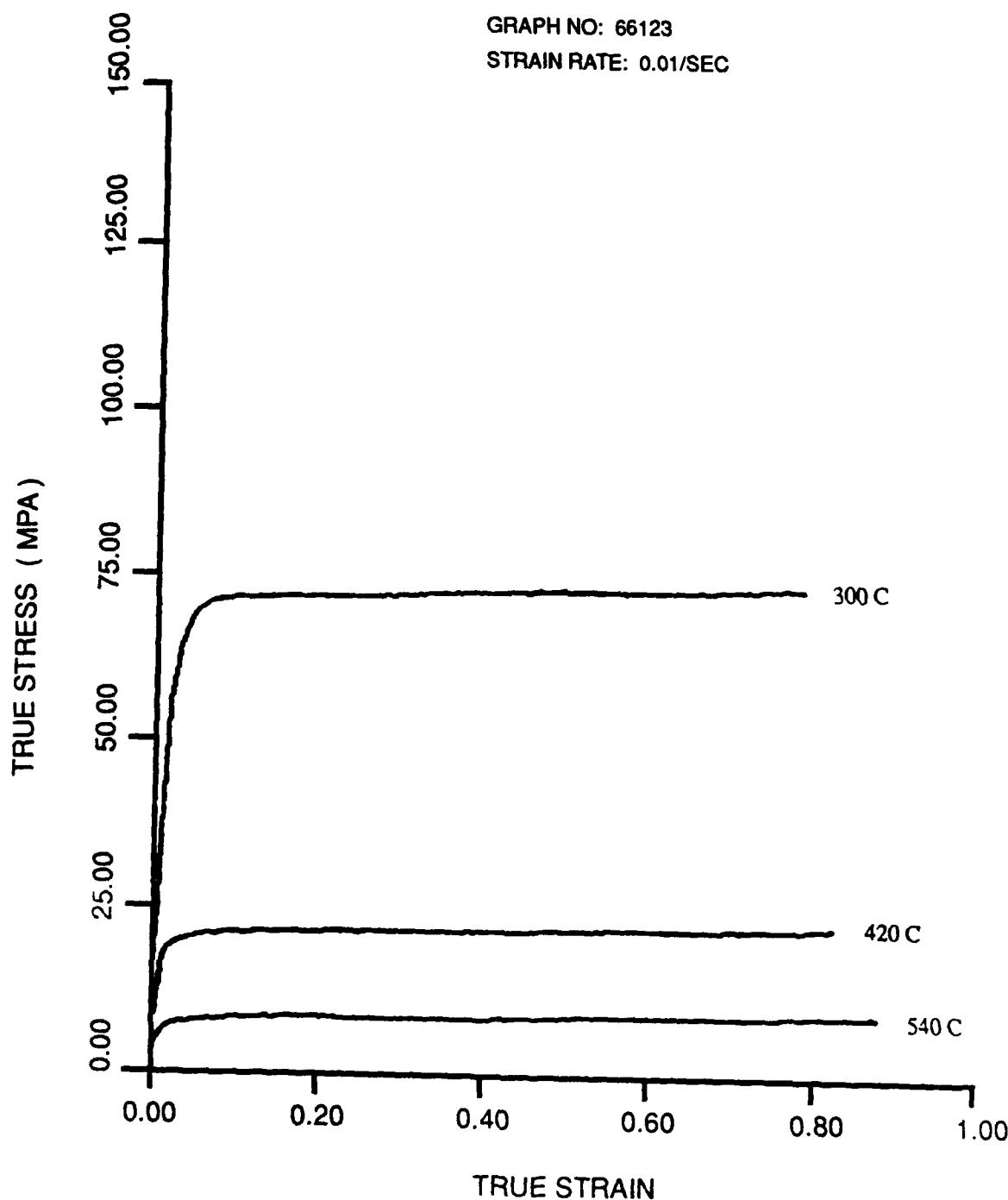
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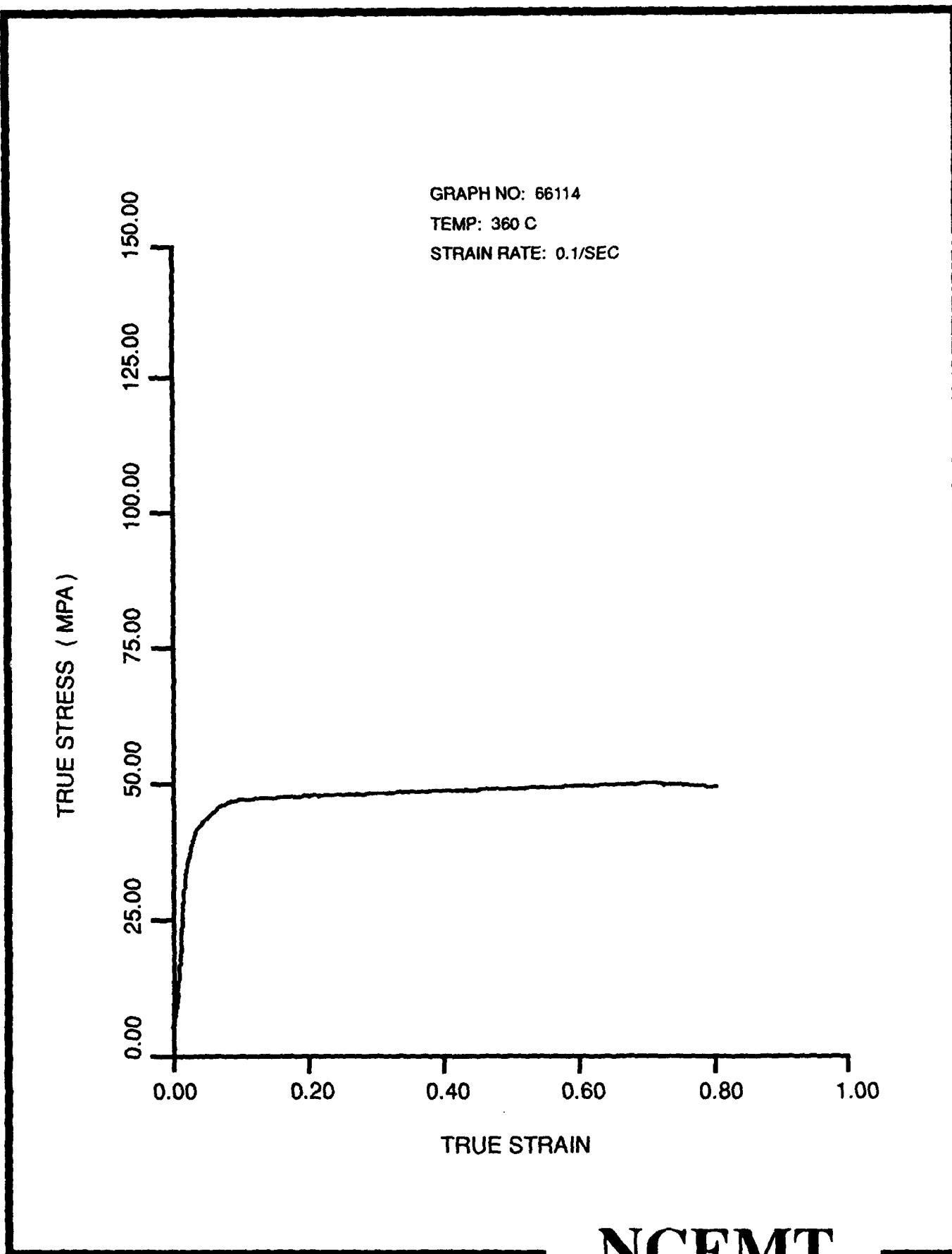
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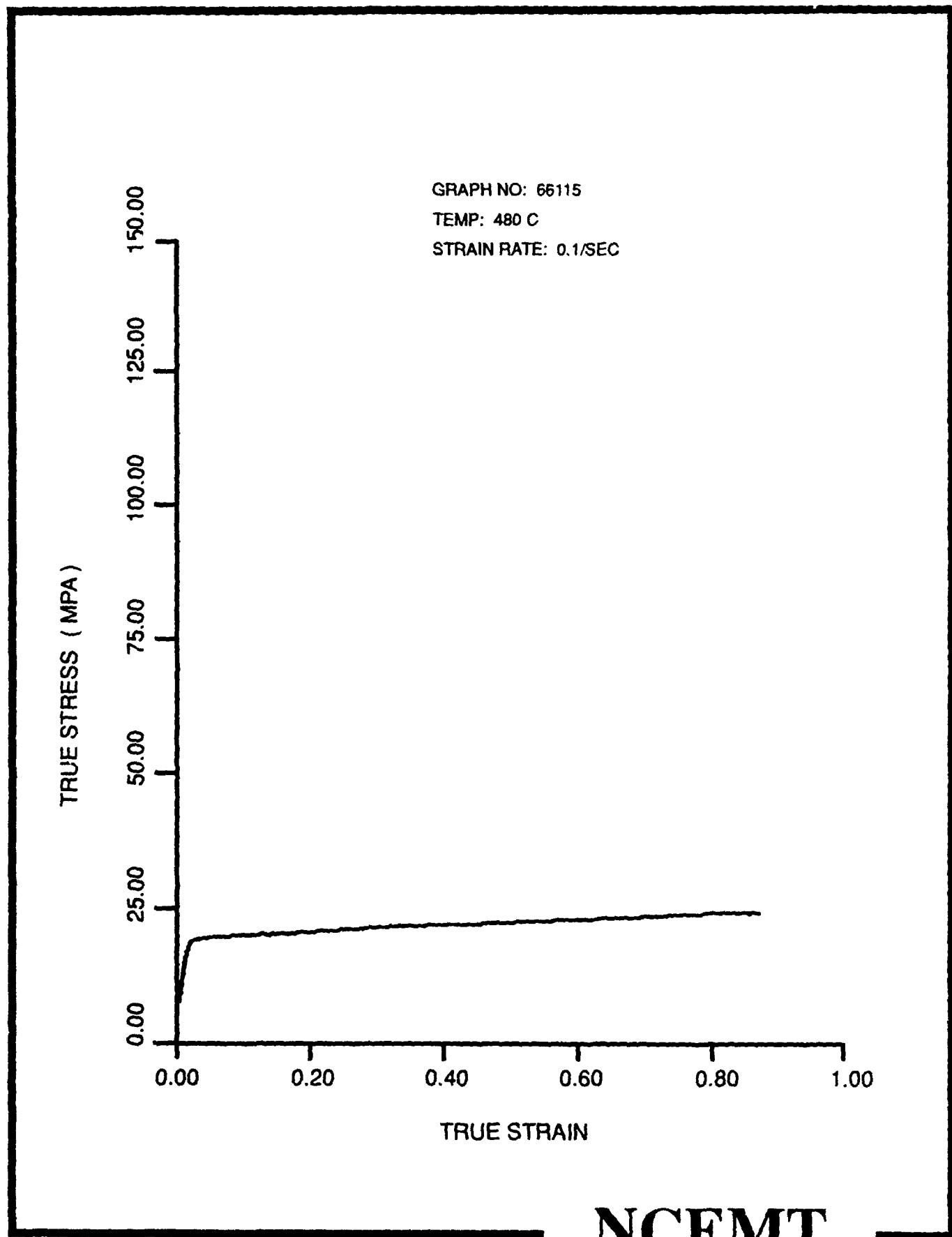


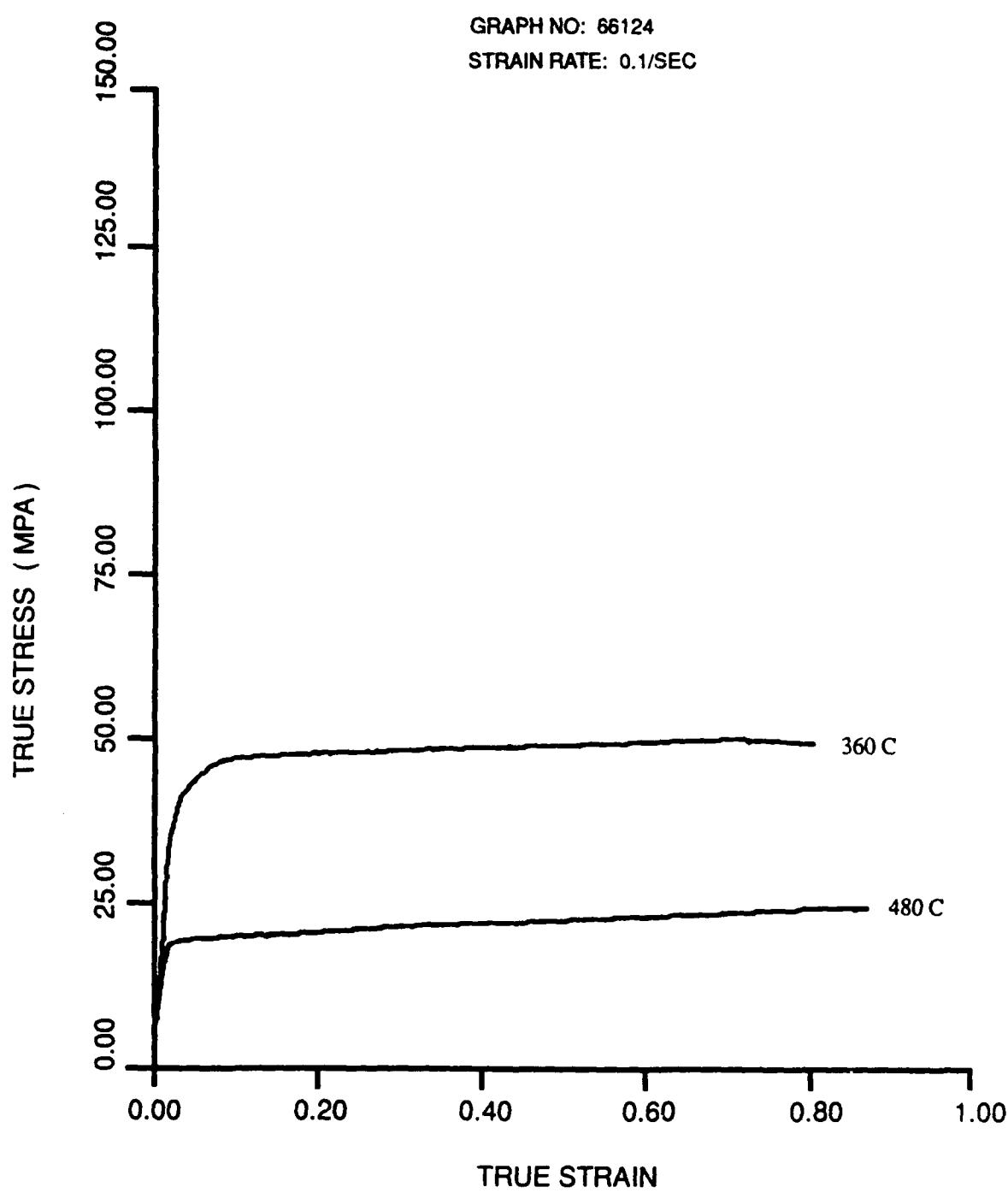
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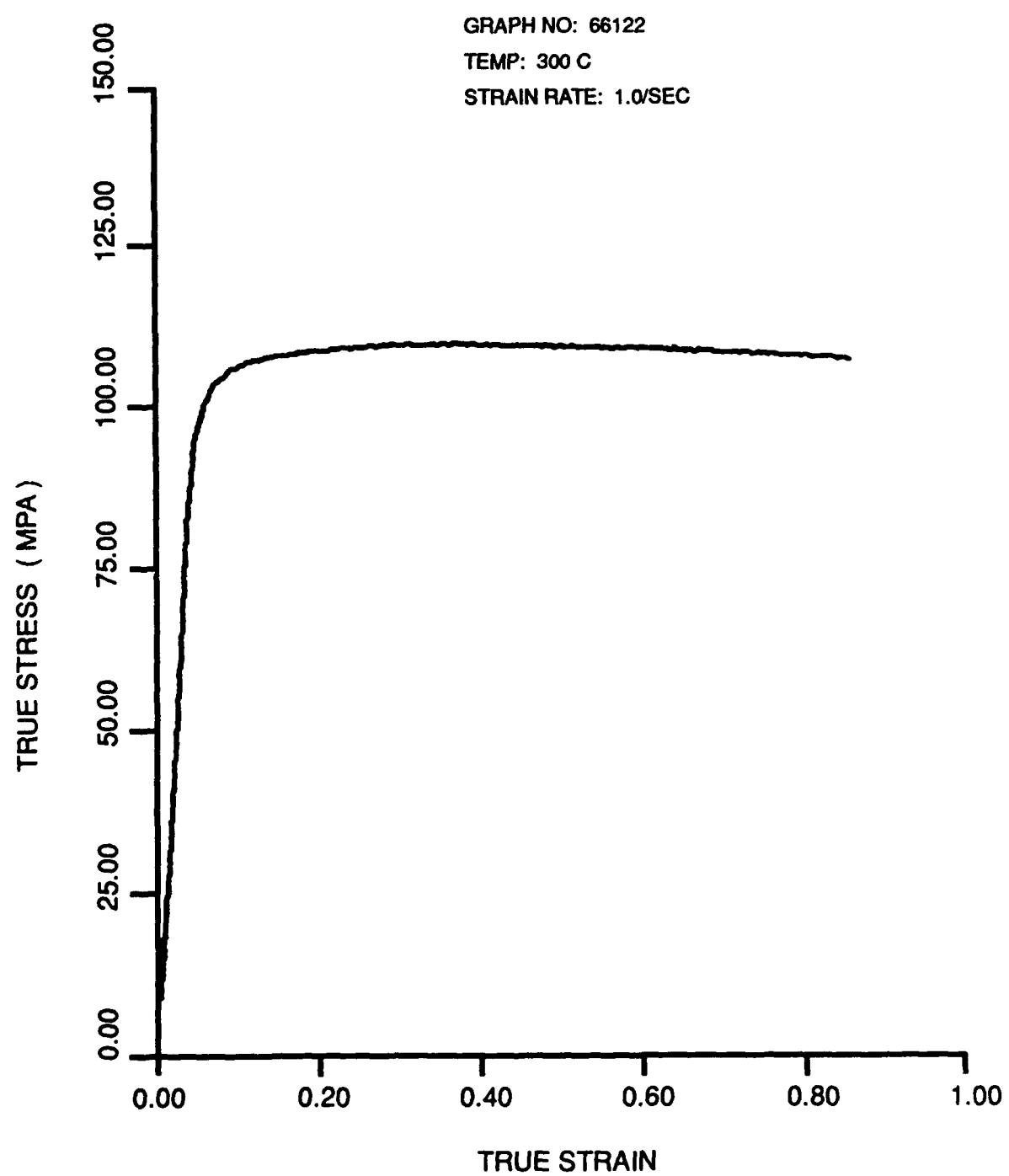
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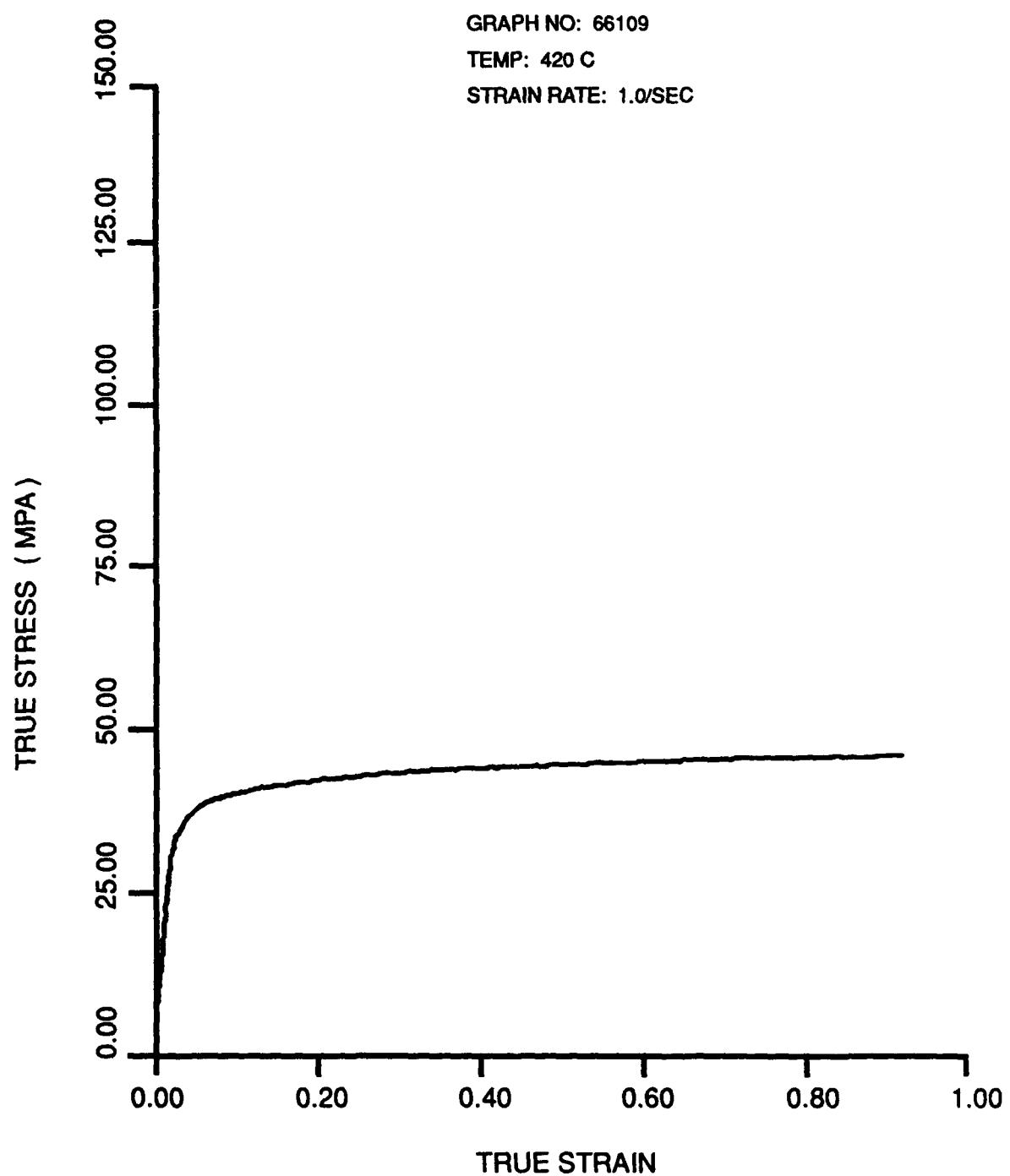




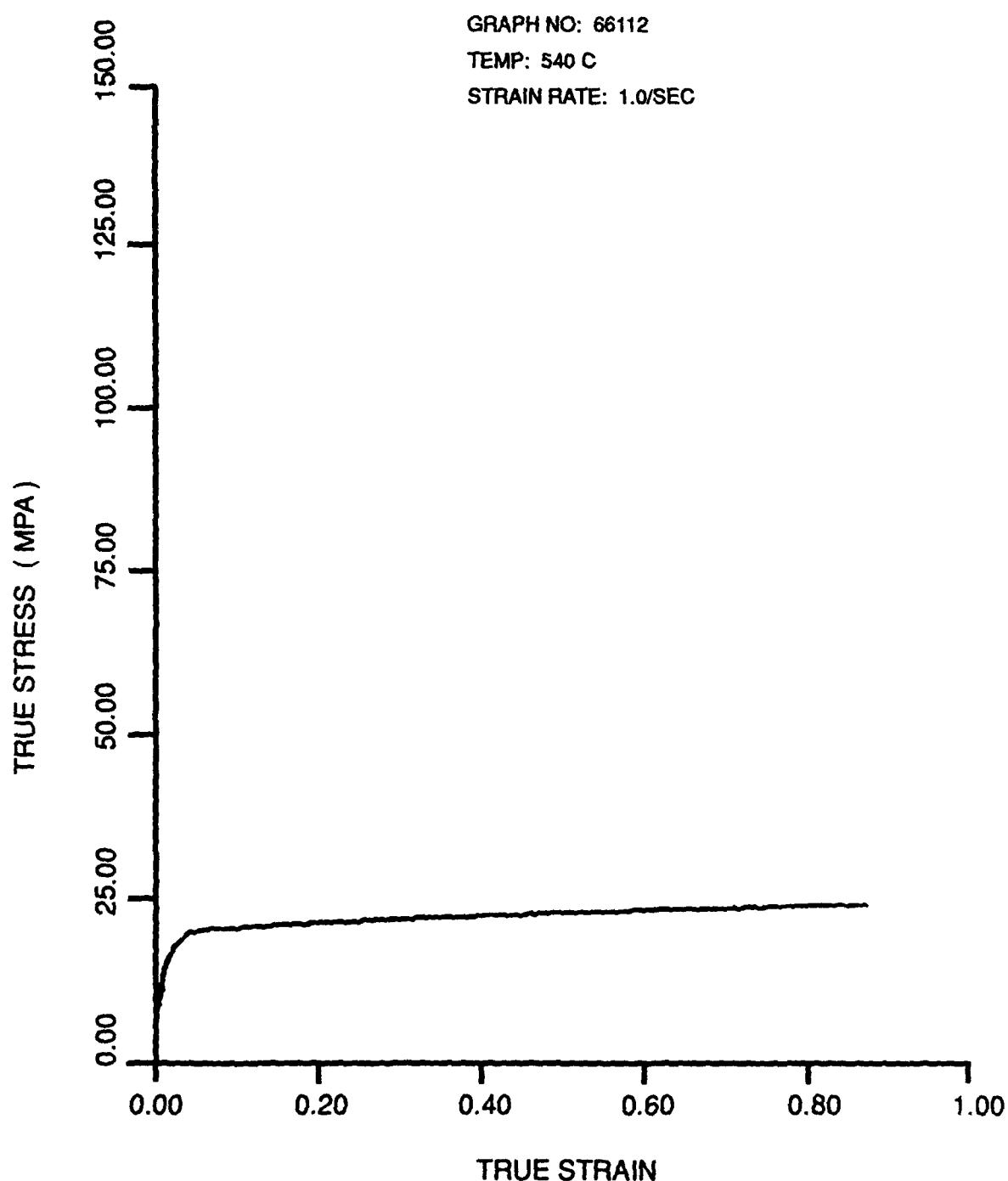
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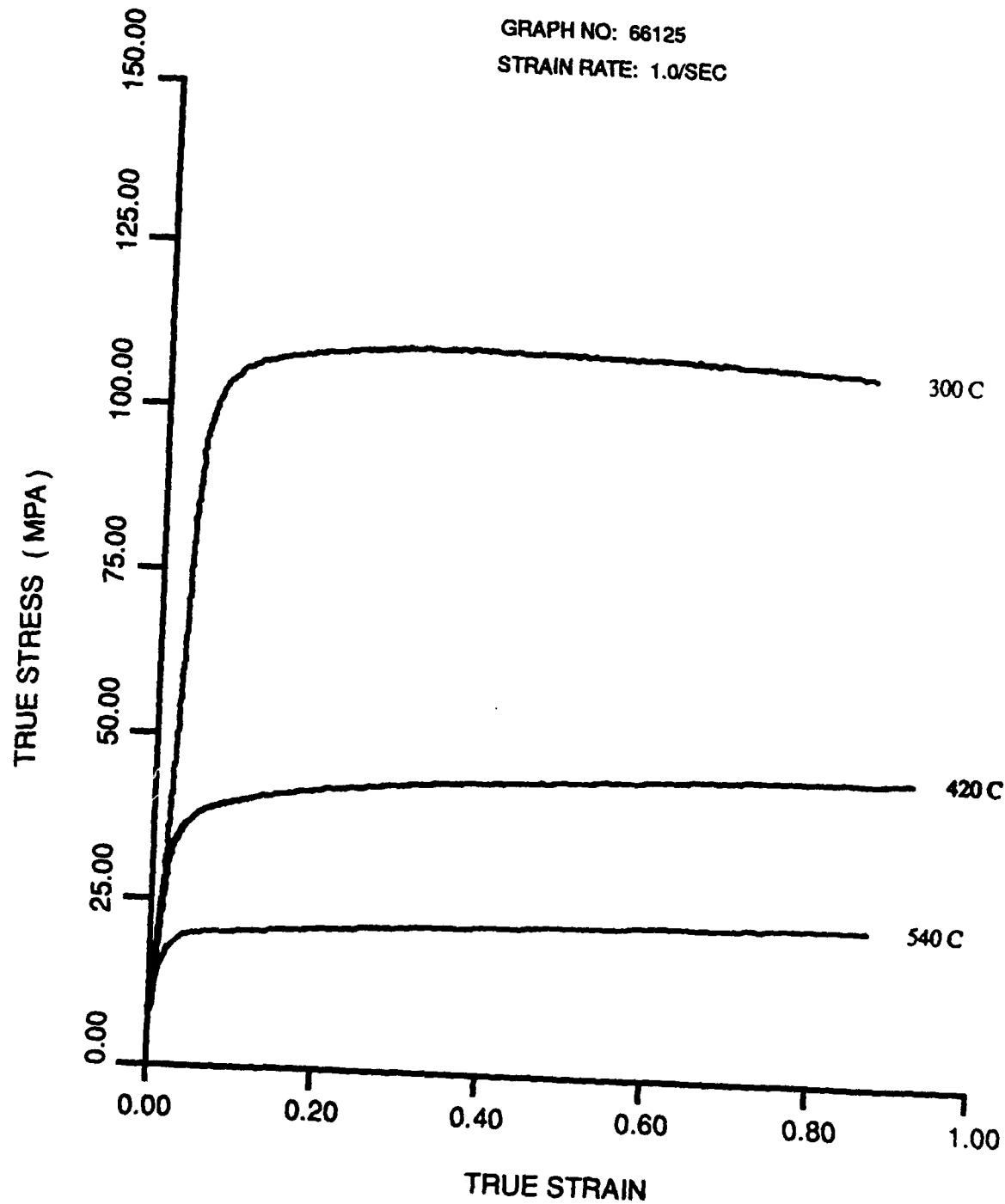
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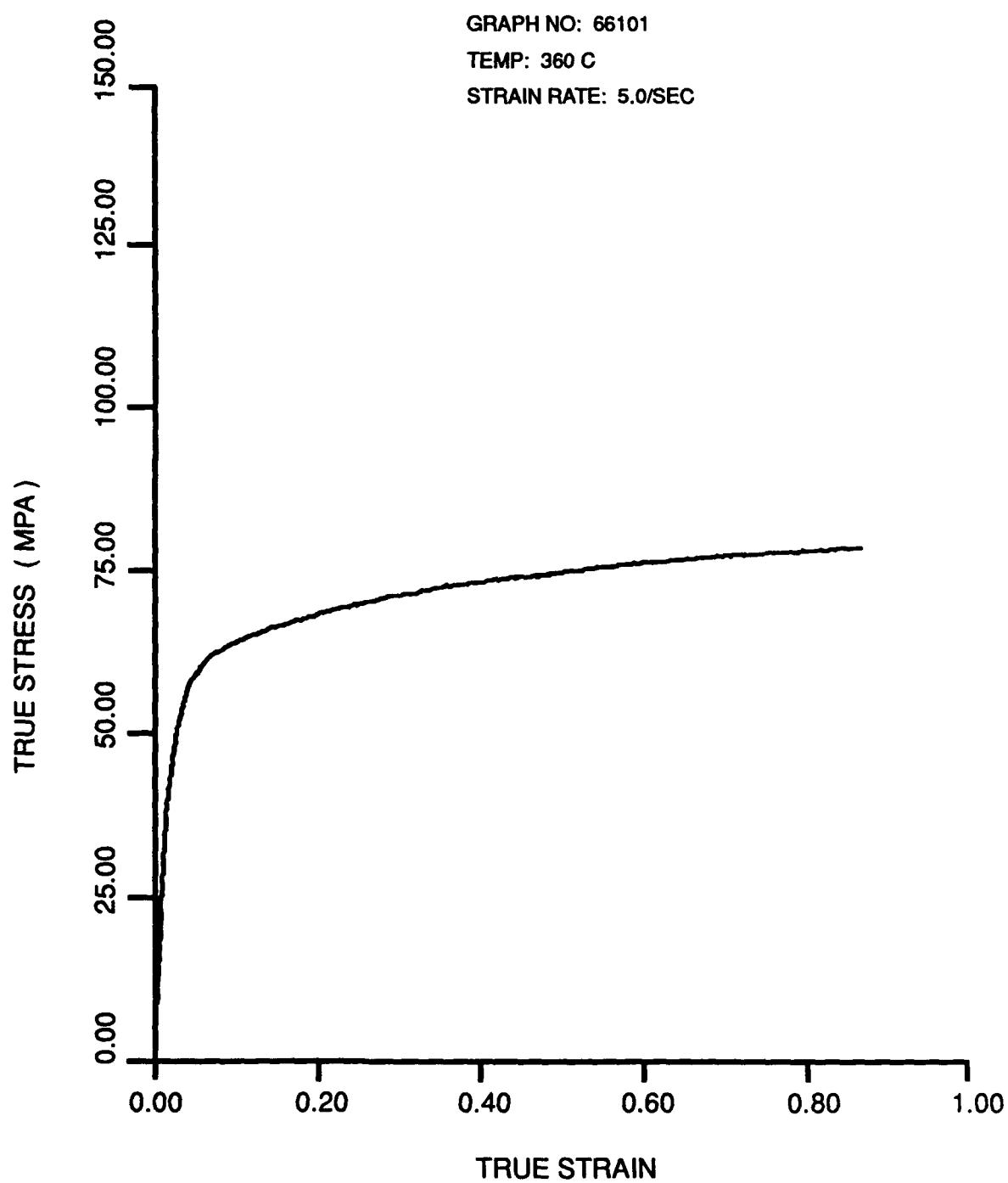
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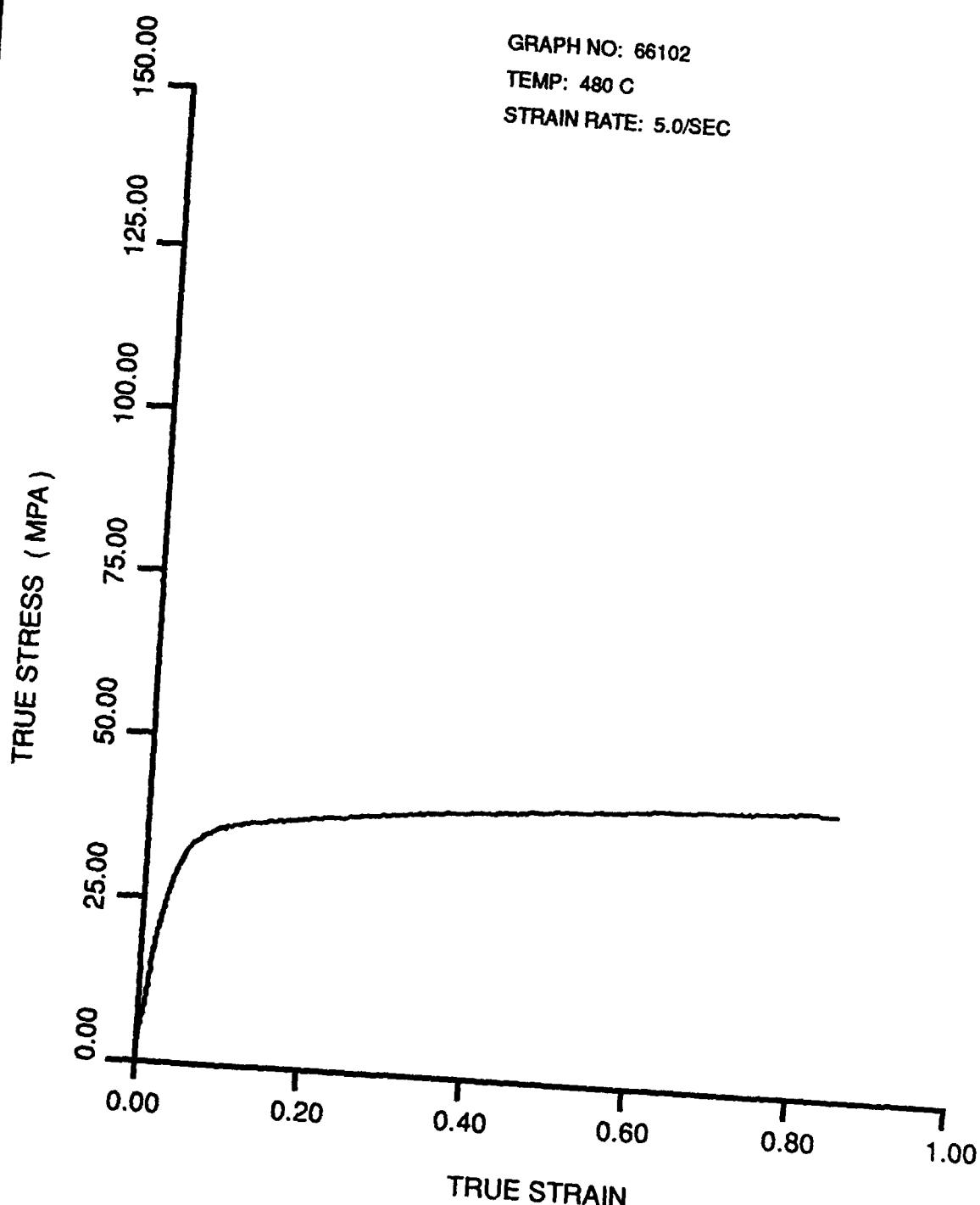
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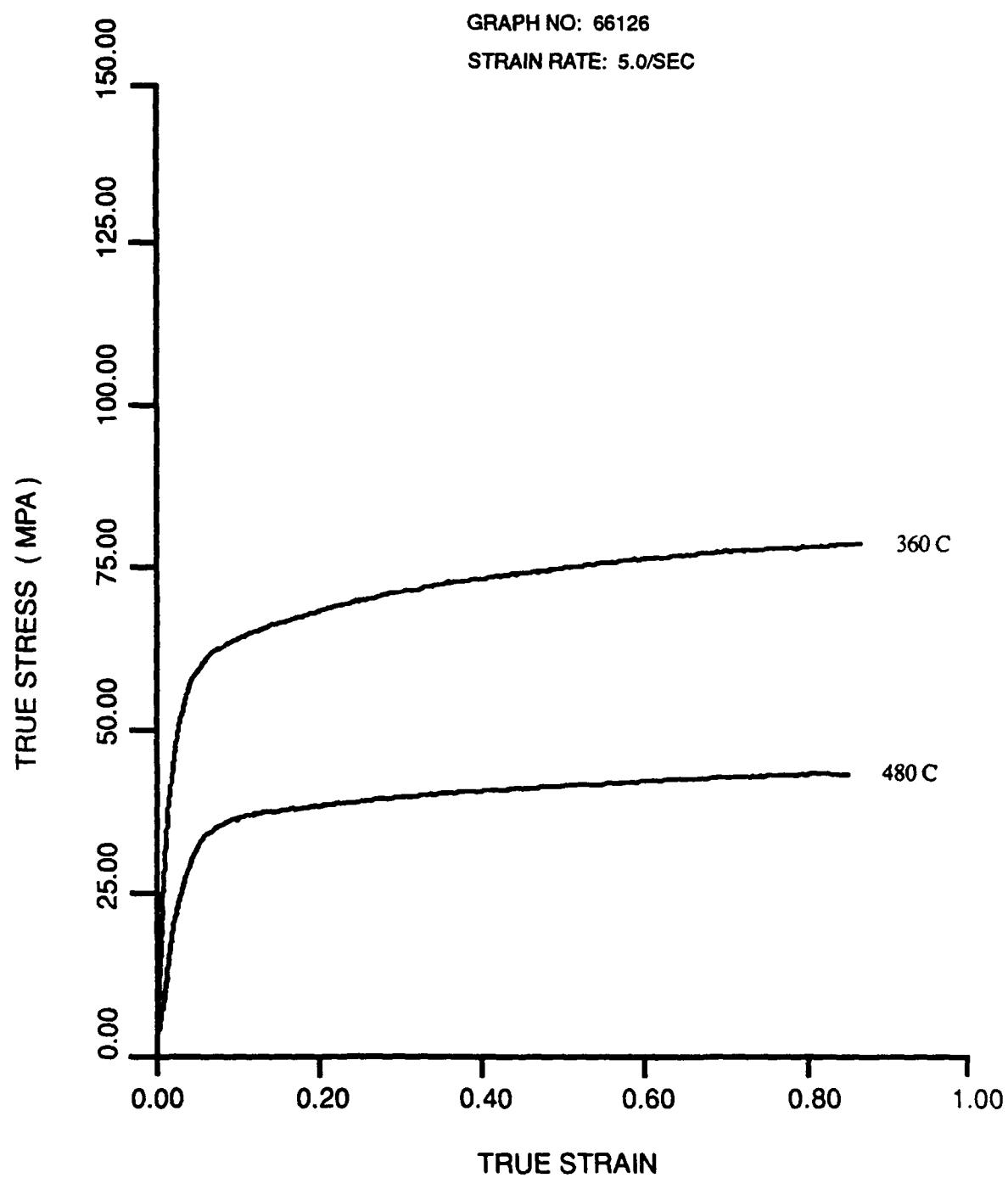
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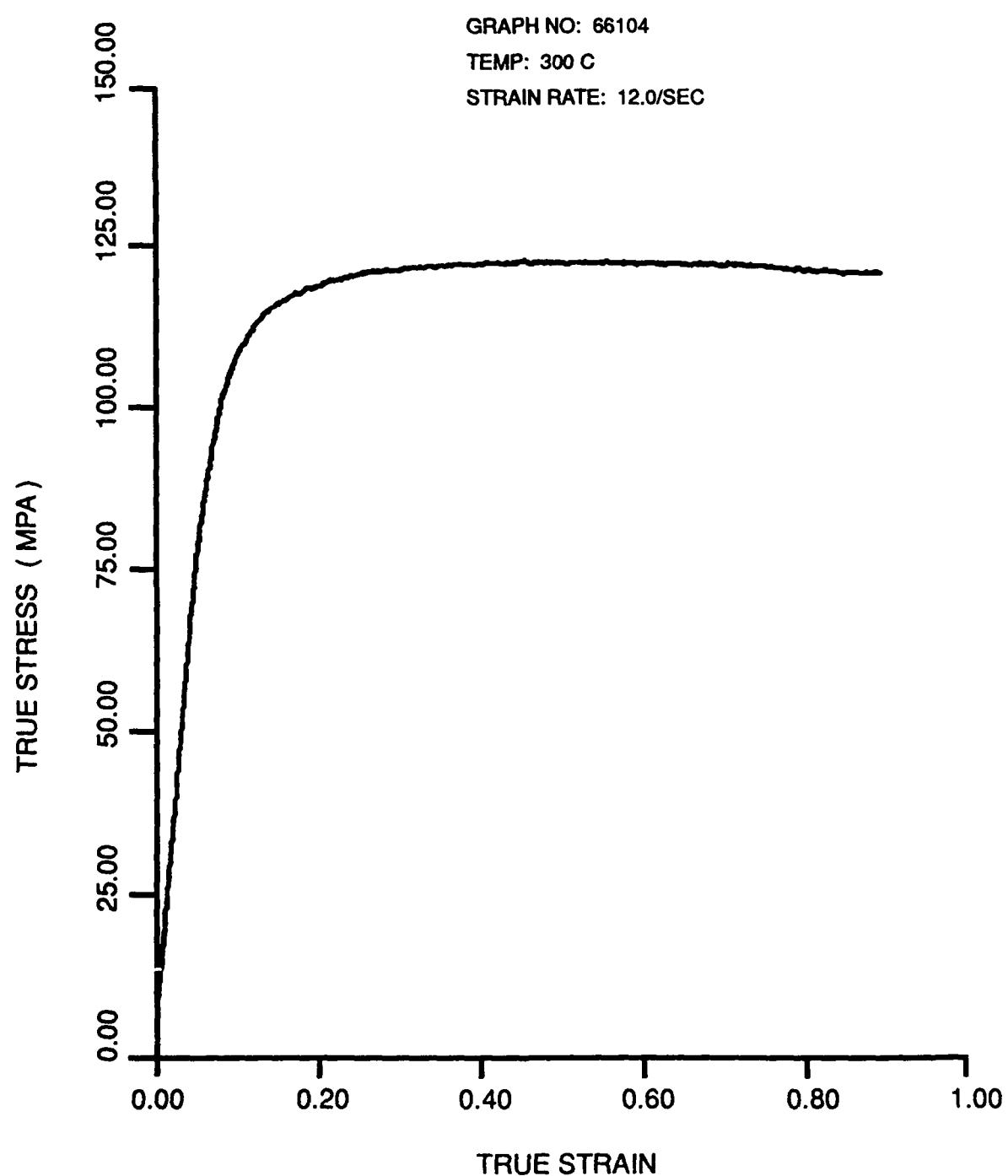
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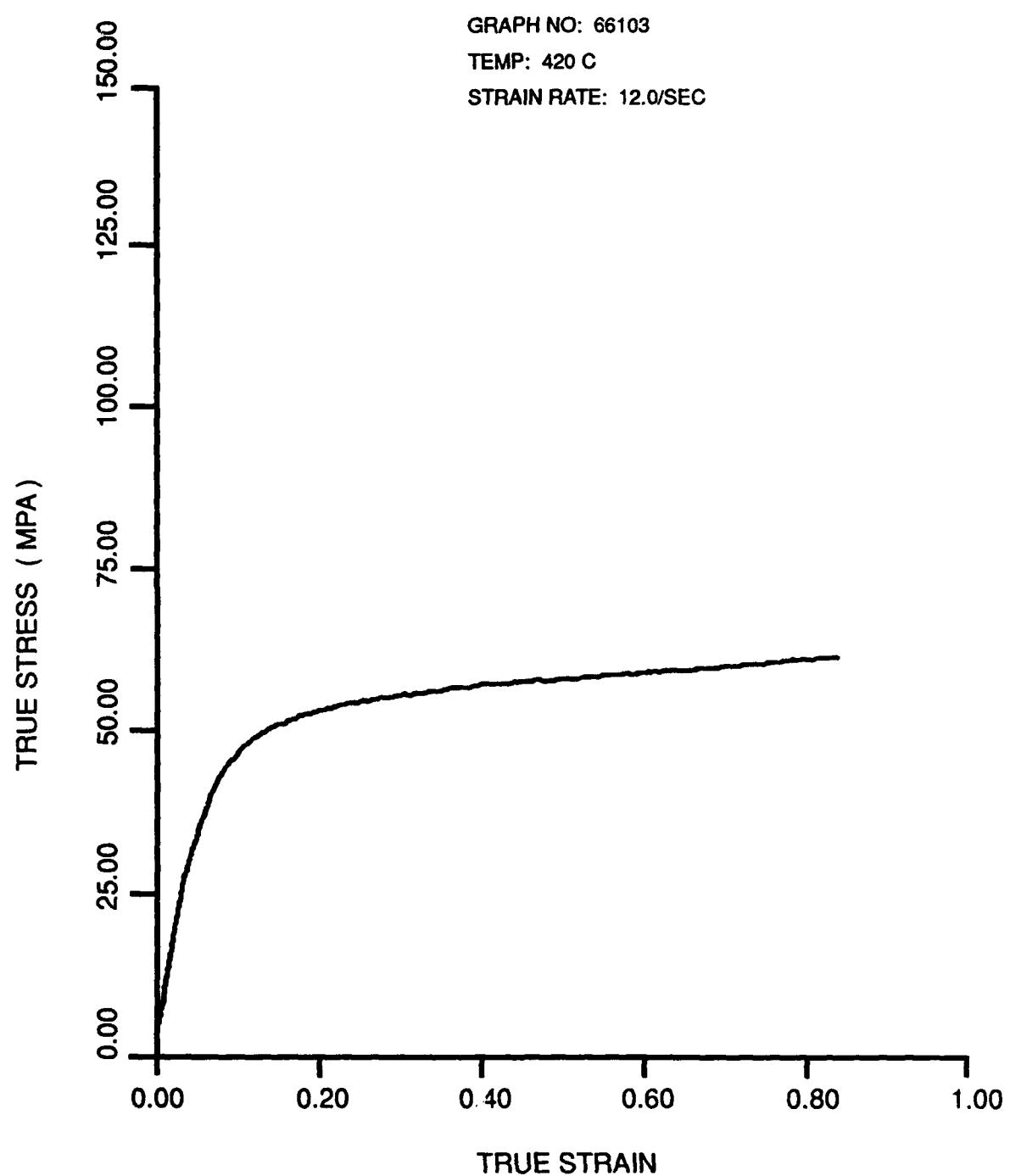
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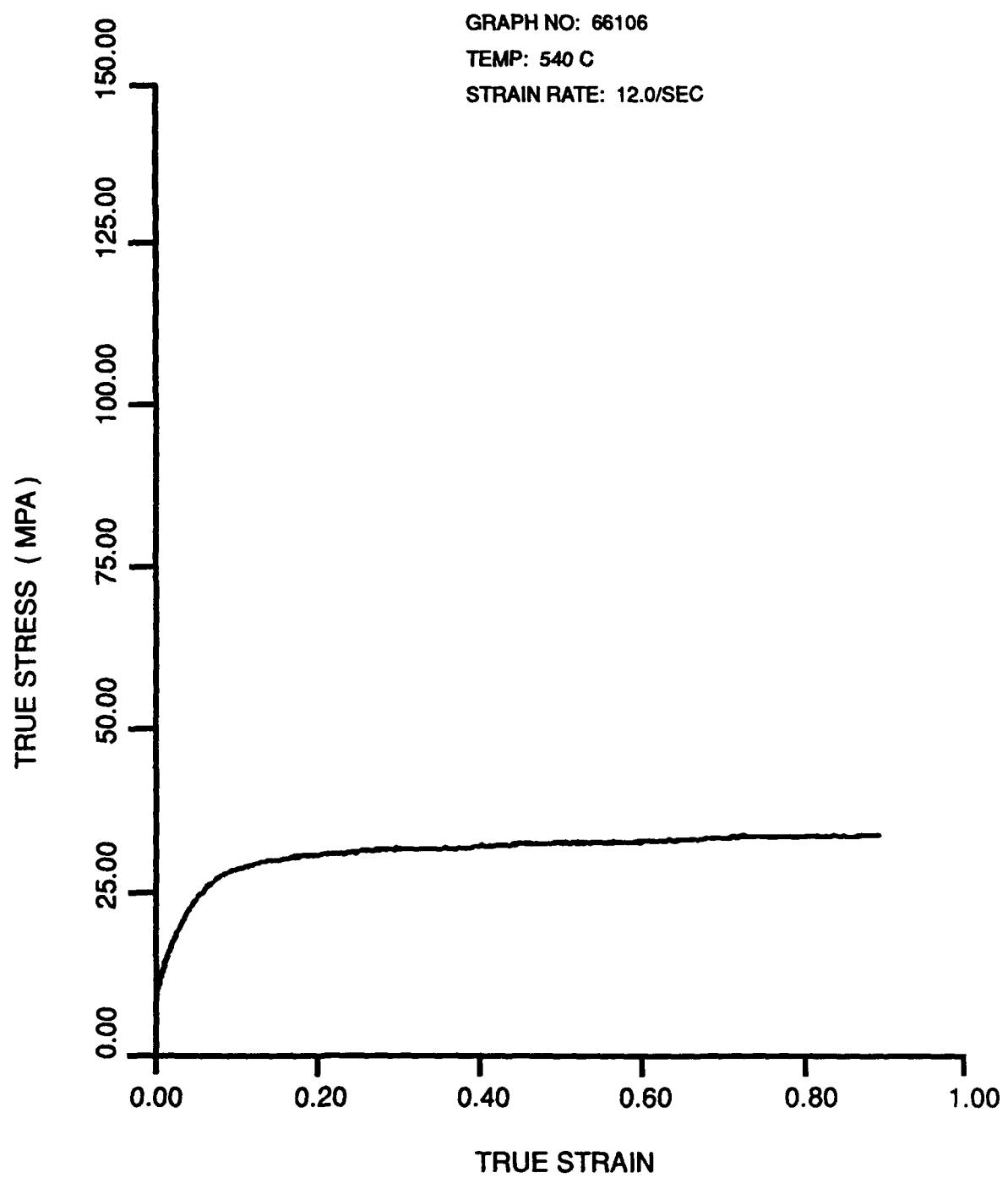
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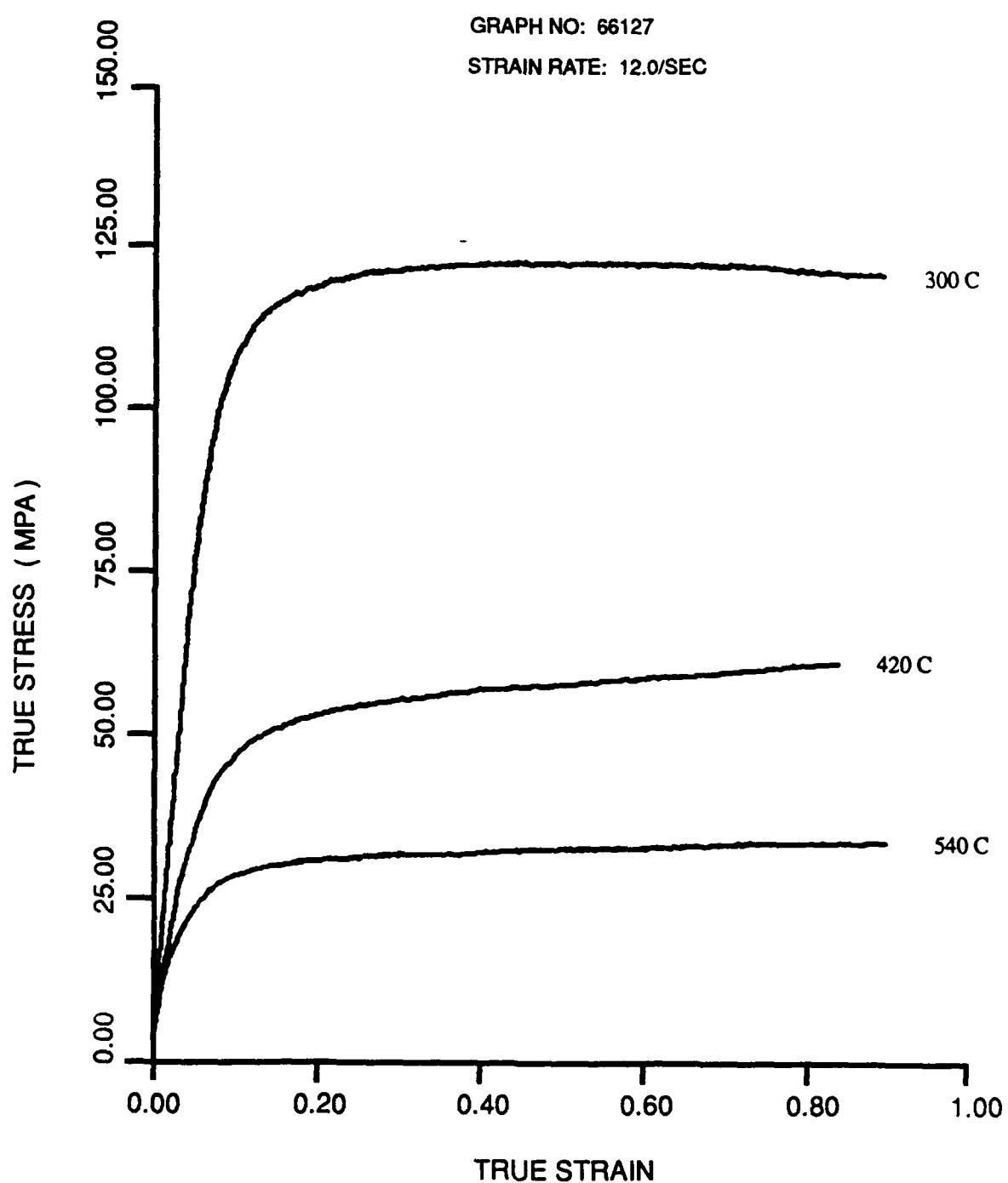
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